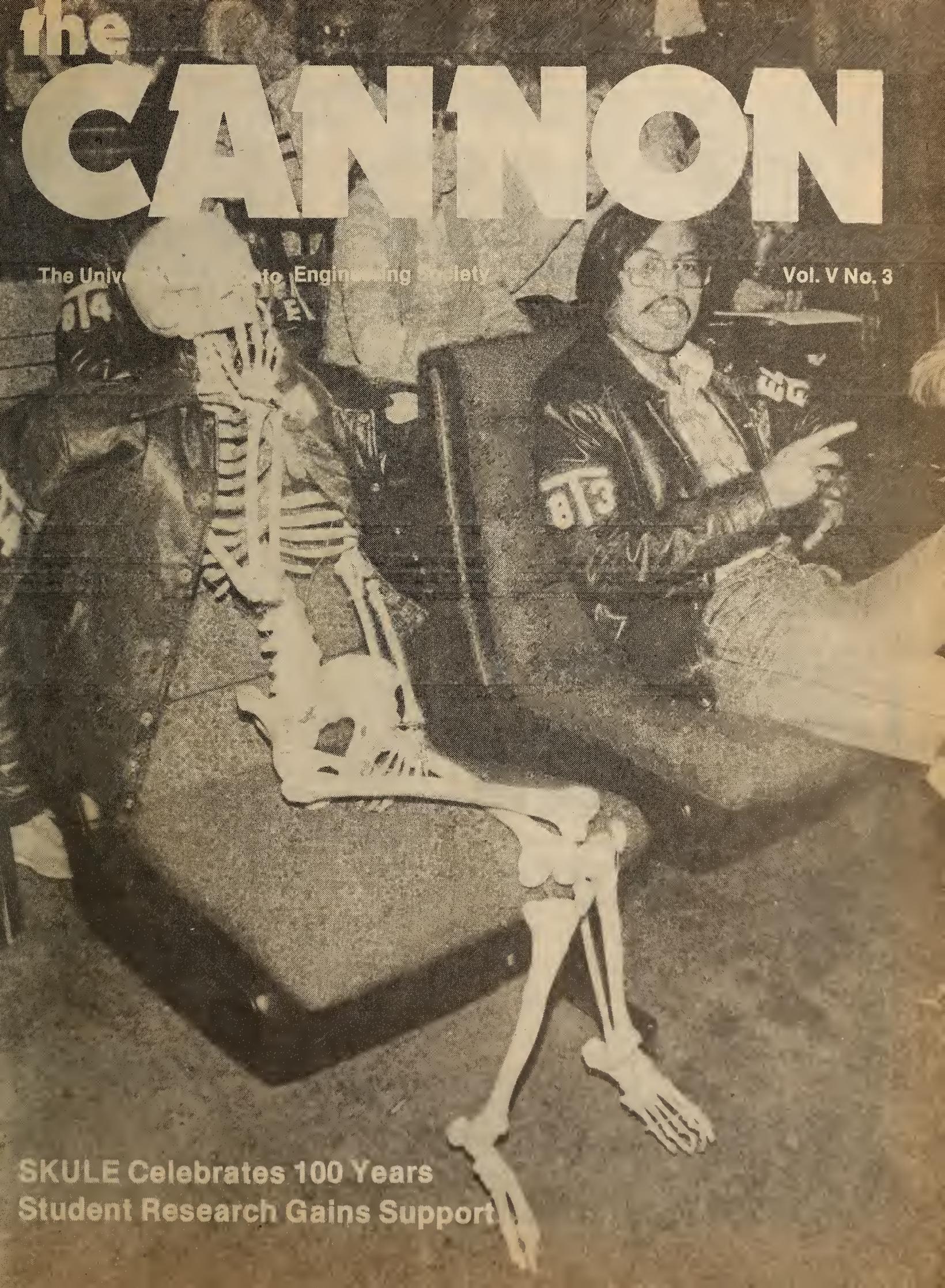


# the CANNON



The University of California

Engineering Faculty

Vol. V No. 3

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# the CANNON

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THE CANNON is a publication of the University of Toronto Engineering Society. It is published monthly to announce Eng. Soc. events, discuss Faculty and University matters, and present technical information of interest to Engineering undergraduates. Subscriptions are available, call Ella at 978-2917. Anyone interested in helping with THE CANNON is most welcome.

THE CANNON encourages submissions; please type or write legibly. Deadline for articles is one week before publication date, notices and letters by 5:00 p.m. the Friday prior to publication. Comments on THE CANNON or articles appearing in it are appreciated. The editors reserve the right to edit letters for brevity.

**Alumni Help Faculty**

Skule alumni have given more money to the Varsity Fund than any other college or faculty on campus.

page 5

**Ressa Conference**

Four student representatives from U. of T. went to a student conference in Ottawa to learn about activities at other schools and other important things.

**Integrated Circuit Design**

Northern Telecom is offering students the opportunity to manufacture their integrated circuit designs.

page 7

**Skule Centennial**

In 1985 our faculty celebrates its 100th anniversary. To make this a memorable event, engineering students are already preparing and need your help.

page 11

**On the Cover**

Is this how you feel?

**In Every Issue**

Calendar  
President's Message  
Eng. Soc. News  
Engineering Athletics

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page 14

# Editor's Notes

Midterms--we all have them and we all hate them. In many ways, this is the worst time of the year because there are, not only exams to contend with, but lab reports and problem sets to be handed in. Moreover, those crazy people (ENG SOC) who arrange fun things to do, still arrange fun things to do, so that we can't study. No one said this was going to be easy, but this is ridiculous!

BUT WAIT- some words in defence of those much slandered midterm examinations. Did you know that once, long ago, in the days when engineering students wore slide rulers on their belt loops and coffee at the Elm was 5¢, there was no such beast as the midterm. Hurray, you may say.

However, being a quick-thinking engineer you become suspicious (or should I say - being a suspicious engineer you quickly think...): What happens to the 25% portion of my final grade which the midterm constitutes? The only answer to this is, of course, ONE HUNDRED PERCENT final examinations. Think hard - 100% finals - not a thought to aid digestion. Actually for some of you this may not be such an awesome proposition, as you may excel at these university games. If there are any of you who are like me, and may forget the integral of  $1/x$  when the guy behind you sneezes, having final examinations represent the sum total of the final grade could be a potential disaster.



And so, I take this opportunity to suggest that we lucky engineering students of the '80s, use these midterms to catch up on all the work we meant to do in September, prepare for the final crunch in December and train our unfit bodies for the inevitable "all-nighter". On that note I am going to finish this column a little earlier than previously so that I can take my own advise and study for a midterm this Thursday!

## HEY, YOU!

Have you ordered your yearbook yet?

November is yearbook order month. The class that can sell the most books (on a percentage basis) will win a free page in the *Book of Skule* 83. Don't be the one to spoil it for your class — order yours today.

**Skule**  
The Book of

*\$4 from your class rep or at the Stores.*

# Alumni Varsity Fund Donations

# Skule Leads Campus

John Voss  
Chemical 8T2  
Publicity Chairman  
Engineering Alumni Association

According to figures published by the Department of Private Funding, graduates of the Faculty of Applied Science and Engineering have donated more money to the 1982 Varsity Fund than the graduates of any other college or faculty. By the end of August, \$88,642.00 had been collected from 1,211 Skule grads to be used to update undergraduate laboratories and computer facilities in the Faculty. The next highest total was \$60,986.00, collected from graduates of St. Michael's College. St. Mike's perennially leads the campus in Varsity Fund donations.

The August statistics represent nearly a doubling of the amount collected from Skule alumni for the same period last year. At the end of August 1981, 921 alumni had donated \$44,766.00.

Two aspects of the remarkable increase are significant. The 31% increase in the number of donations indicates that more alumni are awakening to the fact that the Faculty is in a dire financial situation and badly needs assistance.

The disproportionately large increase in the amount donated shows that donors are digging deeper into their pocketbooks. In 1982, the average Engineering donation was \$56.39. To date, 1982 donations have averaged \$73.20.

Malcolm McGrath, Assistant to the Dean, Alumni Liaison, attributes the improvement in Skule's Varsity Fund performance to the publicity drawn to the Faculty's plight by

the \$100 incidental fee adopted by engineering undergraduates last March, and to comments made by the Canadian Accreditation Board on the potential damage due to inadequate funding. Both issues have received widespread attention among the engineering alumni community.

The Engineering Alumni Association aims to raise \$150,000 for the Faculty through Varsity Fund donations. The August total represents 59% of this amount. November and December are usually heavy months for donations, and it is expected that the goal will be met and hopefully surpassed. In 1981, 77% of the goal was achieved.

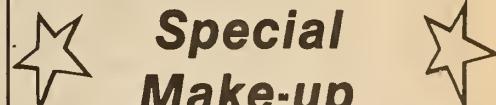
Despite the considerable improvement in the 1982 Varsity Fund, there remains much work to do. Skule is the largest constituency in the Varsity Fund, yet its rate of participation (ie. number of donors per number of alumni) lags behind that of other faculties. The August figures show Skule in third place, with 7.28% of its alumni having donated. At St. Mike's, 7.50% have donated, and 7.35% of nursing alumni have contributed. The value of the average donation from a Skule grad is up considerably over last year but, at \$73.20, it is still well below the \$100 contributed to the Faculty by each engineering undergrad, and third in alumni donations behind St. Mike's (\$93.82) and Forestry (\$75.77). These are areas of improvement which will soon become the focus of attention for Engineering Alumni Association fundraisers.

A direct appeal will be made to as many as 4,000 engineering alumni during the Varsity Fund Telethon. Calls will be placed to

alumni who have not yet donated to the Varsity Fund.

The Alumni Liaison office is recruiting 100 fourth year students, asking each to man the telephones for two to three hours one night during the first week of November. The students will be able to relate personally the financial situation of the Faculty, and will be able to discuss their \$100 incidental fee with the alumni they call. Sandwiches and beer will be provided to the volunteers, and Malcolm McGrath has offered a \$100 prize to the class that secures the most in pledges donations. Interested students should see their class representatives, or Malcolm McGrath in Galbraith room 139.

## SKULE NITE 8T3



**Special  
Make-up  
Auditions**



**Tues., Nov. 9  
7-10 p.m.**

**Music Room,  
Hart House**

*(For those who were unable to attend auditions in October)*

# Students Attend Conference U of T in Ottawa

Rob Zingel  
Mech 8T3

The Regional Engineering Student Association was hosted this year by Ottawa University. U of T sent four delegates to the conference, held Oct. 15, 16 & 17, and attended by universities from Ontario and Quebec. This type of conference usually has two main purposes. First, these conferences promote an exchange of ideas and information, and help to provide solutions to problems faced by University Student Societies. Second, a series of lectures are held, with a specific theme. This years theme was "The Role of Computers in Engineering." All lecturers stressed the expanding role of microprocessors in engineering.

In the workshop session of the conference, universities discussed matters of mutual interest. For example, Concordia U. has invented a quaint concept for parties. Upon entrance

to a particular gala event, ladies receive a numbered card labelled "Hot", while gentlemen receive a numbered card marked "Horny". Hence the theme: 'Hot and Horny Party'. The object is to find your matching number. Obviously, this promotes a great deal of mixing, small talk, games, and sex. Very imaginative indeed! Concordia also initiated, for the first time in history, an event called 'Orientation Week'. Most importantly, Concordia volunteered to host next years conference.

Waterloo also has an incidental fee. Following our lead, they are now charging students \$50 per term, which is implemented by a committee with a student-staff ratio of 2 of 1. Perhaps this is an idea for Toronto. At least one department chairman, is of the opinion that student vision is often limited to short term gains, whereas faculty, because of their permanence, is more farsighted, and better suited to the task. While this may be true, a certain degree of student input

is necessary to ensure that immediate needs of the students are not satisfactorily. Waterloo finally recovered the "Rigid Tool" (which is analogous to the Cannon at U of T). Rival engineers (from a SKULE you are familiar with) banished the 'tool' to the depths of a 204.3 litre (45 gallon) drum filled with reinforced concrete: (where it cried and gnashed its teeth). Unfortunately, Waterloo had very little trouble retrieving the suffering symbol. The 'tool' was released from its plight after several hours work with a pneumatic jack-hammer. An annual event worth consideration is the 'Bus Push'. This is similar to a walkathon, except students push fully loaded buses around the campus. All proceeds go to 'Big Sisters'.

Student vandalism is a problem at Queens. To prevent its escalation, a self-discipline program has been implemented. Guilty by trial individuals are blacklisted by the society and barred from attending engineering functions.

McMaster reports that their 'Toike-like' publication has been cancelled due to the 'offensive' nature of the material. The delegates also said that they were working to improve the operation of their society.

Future conferences will have a stronger emphasis placed on communication between societies. Lectures will play a smaller role and plenary sessions may be introduced.

U of T delegates were often consulted on issues of importance, and left the conference with a strong image. The exchange of ideas, initiating of friendships, and spirited atmosphere, created a feeling of unity among engineering societies, and cameraderie amongst delegates. A good time was had by all!

## Queen's Holds OEDC '83

Last year, the Ontario Engineering Design Competition was held at U of T and was a major success. Attendees witnessed innovative design concepts and prototypes as well as oral presentations on socio-technical issues of importance. In todays technological society, the importance of the engineer as an instrument of communication between the general populace and the scientific community, has never been greater. The rapid change which surrounds us often leaves the layman feeling left behind in the onslaught. The competition was established four years ago to satisfy two major needs. It provides a forum for understand-

their innovative design capabilities, and it serves to increase the engineers awareness of his role, not only as a technical problem solver, but also as 'scientific ambassadors' in society.

The four categories to enter are:

- 1) Entrepreneurial Design
- 2) Corporate Design
- 3) Editorial Communications
- 4) Explanatory Communications

Deadline for entry is December 1st '82.

For more information, visit the Engineering Society offices in Sanford Fleming Building, and leave a note with Ella.

# Northern Telecom Supports Research Integrated Circuit Design

Brett Calder  
Ind 8T3

University of Toronto students have been given the chance to see if their integrated circuit designs will work, thanks to Northern Telecom Ltd., world leaders in the telecommunications industry.

The program, between Northern and universities offering appropriate courses, allows students to submit 4 designs of VLSI (very large scale integration, greater than 2500 electronic components per chip) devices to Northern's Ottawa based Semiconductor Components Group twice a year. Northern Telecom's fabrications line will absorb these designs and return to the students about 20 devices per design, tested with fully documented results. Students from 12 Canadian post-secondary schools will be participating in the program including 5 from Ontario and Quebec: McGill, Queen's, Waterloo, Western and Toronto. At U of T, grad students enrolled in ELE1818S already have designs submitted, the finished products expected back by November '82. The course is limited to about 20 students (to be expanded this year) who use the CAD facility VAX11750 to generate design data for Northern.

Jeff Roach, a spokesman for Northern, said: "Universities have no facilities for manufacturing chips the Students' design. It's the drawing up plans for a model airplane and then not being able to build the model to see if it flies." The program will give students a chance to have their work assessed by some of the leaders of the field, he said.

"Northern Telecom is a major user of high-tech talent, and of

course, the development of that talent is a major issue in Canada today. We think this program will help develop that talent." Northern will invest \$80,000 in 1982 and \$14,000 next year.

Dr. C.A.T. Salama, Chairman of the Electronics Group of the Department of Electrical Engineering at the University of Toronto hopes Ottawa (ie. NRC, NSERC) will take notice so that in future a central silicon

foundry, dedicated to the inputs of universities, may be established similar to the American program run by the Department of National Defence. This program has an impressive turnaround time of 4 - 6 weeks. Hopefully, Northern's generosity in this area will be a stop-gap towards bigger and better things in Ottawa's commitment to establishing high-tech leadership.



## Call for 'Labatt's Blue'

# NOVEMBER

Sunday	Monday	Tuesday	Wednesday
	1	2	3 
7	8	9	10 <i>Women's Soc.</i>
14	15 <i>E.A.A. meeting 5 p.m. GB 202</i>	16	17
21	22	23	24
28	29	30 <i>One week and two days 'till the end of classes</i>	

day	Thursday	Friday	Saturday
Le Nite ers' Meeting	4	5 <i>Last Day to Drop Fall Courses Pub</i>	6
Playoffs	11  <i>Remembrance Day Mech Dinner Casa Loma</i>	12  <i>Leave Now or Regret it Later</i>	13  <i>Engineering Car Rally</i>
	18  <i>Eng Sci Dinner Chelsea Inn Eng. Soc. Council Meeting Coffee and Donuts served 5. p.m. GB 202</i>	19	20  <i>Vanier Cup (CIAU Football Championship — you dummy!)</i>
	25	26	27  <i>Engineering Pub Wetmore Hall</i>

# President's Message

Wayne Levin  
Eng. Soc. President

I feel compelled to comment on the continued show of support from the Engineering Alumni Association. Their involvement in the activities of the Engineering Society has been substantial and very much appreciated. This year the EAA covered the costs of the Frosh t-shirts and plan on sponsoring two delegates for the Canadian Congress of Engineering Societies in Vancouver. They are also financially supporting the fourth year Grad Ball in the hope of reducing the burden on those planning to attend. But the Engineering Alumni Association's support is not just in the form of financing. They are also very concerned over underfunding and are actively involved in raising more money from their members. This has met with significant success as Alumni donations to the Faculty have increased over the amount raised the same time last year.

To help push this total even higher, fourth year students under the guidance of Malcolm McGrath, who is the Faculty's Alumni Liaison, are taking part in a telethon. The idea being to inform Alumni of the situation and enlist their financial support. The main selling point being that since we students contributed \$100 from our meager summer earnings, the Alumni should be able to at least meet our contribution. This is one of the objectives behind the incidental payment. Judging from the Alumni contributions so far, it appears to be working.

I would like to comment on the apparent reduced involvement of you, the undergraduate students of the fine and revered Faculty. With the

entrance requirements for first year going up, there is concern that the involvement in activities will go down. The thought is that the newcomers are oriented more toward academics rather than having a good time in between. You are members of and financially support the Engineering Society. It's mandate is to enhance your professional and social well-being. Why do you leave yourself out? Just ask yourself if you are going to remember your remarks 15 years down the road. How many engineers do you know who say, "University was great, I got an 85 per cent average," or "Wow, did I ever do great on that thermodynamics midterm." Talk to any Skuleman of yesteryear and they will tell you about old capers that they were involved on or pubs that they attended. So do yourself a favour, get out and enjoy! If you want marks to better your chances of getting a job, you should know that on University placement forms they denote a page for outlining your extracurricular activities. If you find that you must leave it blank, they instruct you to say why.

I am getting a little upset over some of these student-run student-financed organization activities to date. Last week, I wrote a letter to the editor of "The Varsity" outlining my displeasure with regard to the nature of their stories. Open any Varsity and you will see news about what is going on in the rest of the world. This is not too bad except that they do it at the expense of fulfilling their mandate which is to cover concerns pertaining to student affairs. This is what you are paying for. Unfortunately, the staff of The Varsity would rather cover their own social-political concerns.



This disorder spreads into SAC where student governor Susan Prentice seems to feel that it is within SAC's jurisdiction to support Nuclear disarmament. Perhaps you feel good about Nuclear disarmament but is it in SAC's place to represent you on this issue? They are supposed to concern themselves with issues affecting you as a student. A similar proposal was brought up at SAC when it was suggested that SAC express their support for the Solidarity Union in Poland. This idea was quashed because it is not within their realm of responsibilities. I hope that they come to the same conclusion with the Nuclear disarmament issue.

In closing, I want to say that your Engineering Society is working hard to enhance your lives as Engineering students. Each class has 2 representatives, who are supposed to keep you informed as to what is forthcoming. They should be making announcements and should be encouraging you to be supportive. Volunteering for a pub is not very demanding of your time. Attending these functions is good enough! Remember - it is your money. Why not make the most of it!

# 100 Years For Skule

Gus Rinella MMS 8T5  
1985 Centennial Committee  
Chairman

For the past ninety-seven years the Engineering Society has been the spirit of Skule, more than the Faculty's lectures and labs. The U of T would be just another engineering school were it not for diversions such as the LGMB, the Engineering Athletic Association, the Stores, Godiva Week and Cannonball. The celebration of the hundredth anniversary of such an active and diversified organization requires early and careful planning. The Centennial Committee is the group charged with the responsibility of preparing the grand party.

The events for the Centennial should reflect the two sides of the Engineering Society members: hard work and hard play. Furthermore, the activities should highlight the contributions that the Eng. Soc. by engendering leadership and cameraderie, has made to campus life as well as Canadian society. A list of tentative events has been drawn up and are described below, not only for your information but to spark suggestions for improvement or perhaps added activities.

The celebrations would begin in September 1984 with a Homecoming directed at Engineering Alumni. A special float, if not more, would depict Skule through the past century. The half-time show would feature a reunited Band and would culminate with the firing of all surviving cannons. The committee would be involved with the Band reunion, finding the cannon as well as helping to build floats.

The supreme sacrifice of war time Skulemen would be

recognized in November with a special Remembrance Day service. Alumni and their families would be invited to attend a memorial service performed by students at Solider's Tower.

The Centennial Year will get off to a big start if the Engineering Society's bid to host the Canadian Congress of Engineering Students is successful. This week would inform the other Engineering groups around the country of Toronto's achievements as well as rare public awareness of the Centennial.

The interest around in the public by CCES would be capitalized by holding an Open House in February. Displays in each department, as well as lab demonstrations, and spirit-oriented activities would show the typical daily activities of an engineering student.

The highlight of the year would be the Centennial Reunion Supper. The event would be held in March, if possible, to coincide with the Society's founding as a similar supper 100 years before.

Now the hard part; we need YOU to help. Events such as those described don't happen spontaneously. Some will say that we still have two years to go, but I contend that those two years might not be enough. Involvement in Centennial may prove to be more than just intrinsically rewarding. Committee members will be speaking to representatives from industry and alumni (both potential employers) to help with the celebrations. A project that should hit home with every engineer is the proposed Centennial Design Project. This activity is meant to exploit the technical skills of the student as well as raise public awareness.

The Centennial Design Project hasn't made it to the drawing board yet. A suitable project hasn't been suggested yet. This is your chance to shine! Proposals for the project will be welcomed (if in writing) until Tuesday December 7th at 5:00 p.m. Submissions are to be given to Ella or put in the Centennial mailbox in the Eng Soc offices. Guidelines for your ideas are as follows:

- 1) The project must involve as many of the Faculty's Departments as possible.
- 2) The project must be attractive to the media and public;
- 3) Students must be able to design and build the vast majority of the project;
- 4) It can't cost the moon.

Challenging enough? I hope to see the challenge met- those Mechs sure talk loud, but can they come through? Details of the project specifications as well as further plans for the committee will be revealed at a meeting on Wednesday November 10 at 5:00 p.m. in the Sanford Fleming cafeteria. Your attendance at this meeting will be taken as a barometer on interest in Centennial events. Come on out and watch history in the making.

**100 YEARS  
Centennial  
Committee  
Meeting  
Wednesday,  
Wed., Nov. 10  
5 P.M.  
SF Cafeteria**

# Eng. Soc. News

The Engineering Society has been busy keeping everyone entertained with terrific events. The Cannon Cruise held on the Saturday of Thanksgiving weekend saw many hearty Skule types out drinking and dancing under the stars. (Actually, if any of you remember, it was one of those nights when the Edmund Fitzgerald went down.) Everyone who went had a fantastic time and rumour has it there are plans to hold Skule Nite on the Love Boat.

Beer, beer and more beer. Yes—that's what OKTOBERFEST is all about, and engineers know how to polka and chug as well as George Kash and his band, and any other good Kraut! This year, Oktoberfest was held at the Ukrainian National Federation hall on College Street on October 21 and 22. Although midterms forced a small crowd on Thursday, Friday saw a great turnout. There was a

lot of Blue draft on tap and plenty of good music to dance and strip (?!) to.

On October 28, the Alumni Association sponsored the first free lunch time concert. Our own famous LGMB leader, Dave Booz introduced a group of fourth year music students who make up a brass quintet. They treated lucky engineering students who were enjoying their lunch in the SF Cafeteria to contemporary and classical music.

One of the best events being held in November is the CAR RALLY on the 13th. So clean your spark plugs and pull on your driving gloves. The course is 125 miles long and starts at 11:00 AM. The cost is \$15 per car with free food and prizes at the end of the Rally.

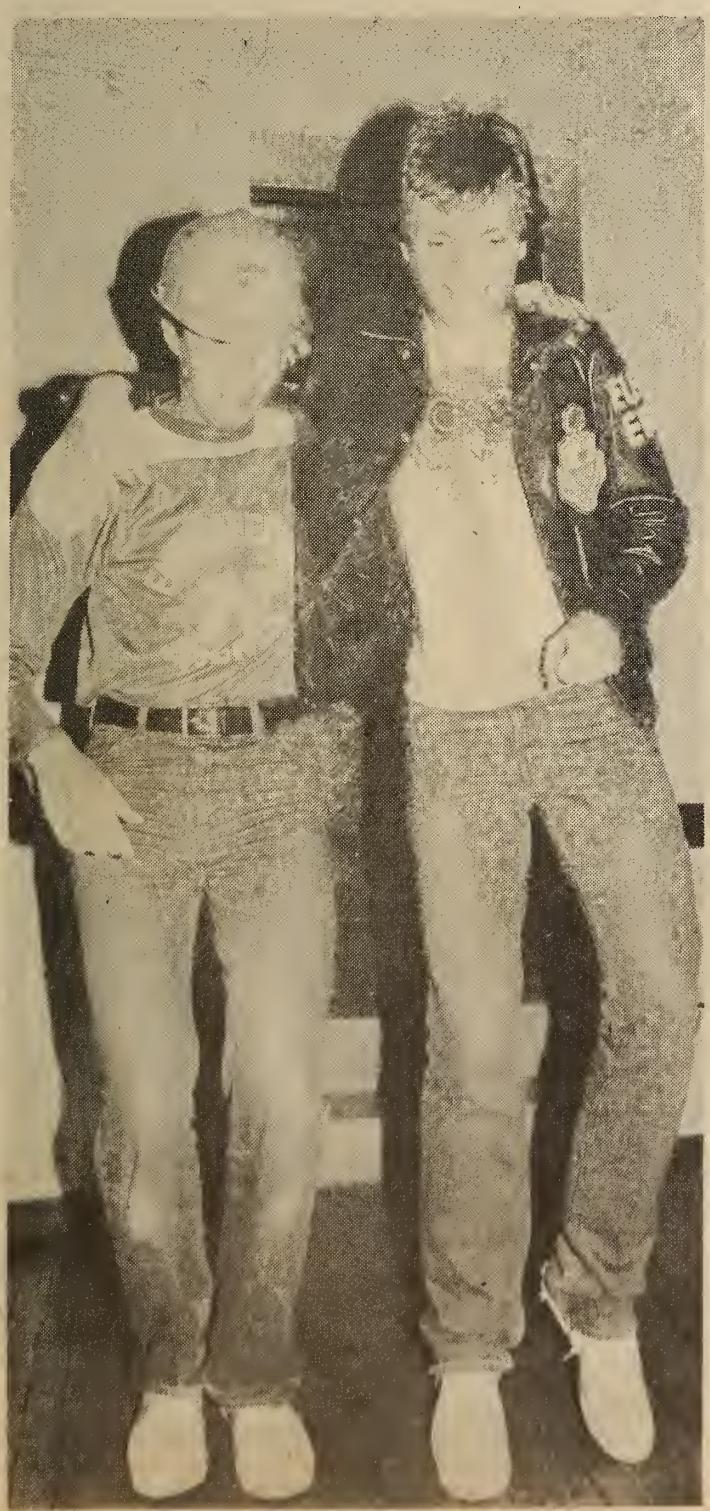
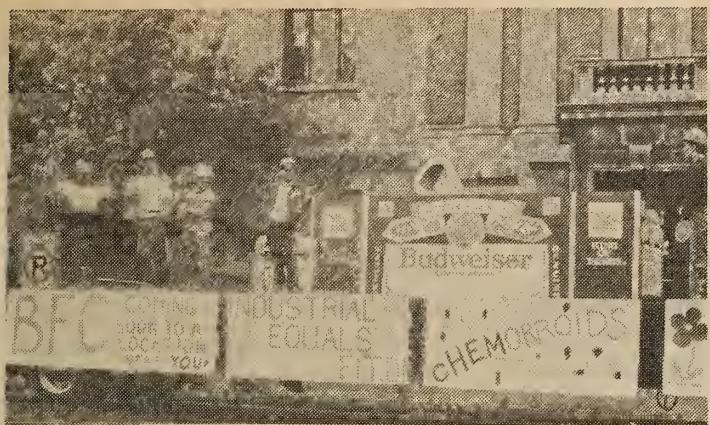
Finally before we all sink into the depths of oblivion and despair studying for finals, there will be one last chance to blast

into the fourth dimension at the engineering pub in Wetmore Hall on November 27. SO BE THERE ready to PARTY!

## THE CASE OF THE MISSING SF PUB

For the past two issues of the Cannon we have publicized Friday evening pubs in the Sanford Fleming Cafeteria. Unfortunately, due to circumstances beyond the control of anybody in the Engineering Society (even Wayne Levin!) the pub has not been held. The reasons for the non-existence of this pub are that the room had not been licensed and the Cafeteria was having problems with the plumbing and exhaust systems. An amazing thing happened on October 27th - the SF Cafeteria was licensed and there really will be a pub THIS Friday November 5th.





## Jock Talk

# Engineering Athletics

Many of the fall sports are heading into the playoffs and once again many SKULE teams are well on their way to becoming champions.

### MEN'S ATHLETICS

#### Football

The men's football team is putting in a strong final bid for the Mulock cup. Although losing their first three games, they won their game on Sat. October 23 and will make the playoffs by winning their game on Friday, October 29.

#### Soccer

The senior team has done well enough to be ranked second in the first division, with a win, loss, tie record of 1-1-2. They beat out Scarborough, tied SMC and the Grads, and lost to Erindale while playing with only nine players to their eleven. The junior team has defeated Law, tied with Trinity and lost to Inns. Depending on the results from games played last week the junior team should make it into the playoffs.

#### Rugby

The Engineering Rugby team is now the Ontario Engineering Rugby Champions!!!! They beat Queen's out in the finals 14-0. Yea Skule!! The senior team is now in first place in the standings here on campus and the junior team is not last.

#### Basketball

Engineering has three great teams entered in divisions IA, II, and IIB. Each team has played once already with the Division II team winning and the other two teams suffering defeats.

#### Volleyball

Men's volleyball is starting early this year so be aware. The season begins November 15.

campus.

### WOMEN'S ATHLETICS

#### Soccer

Yet another Skule team makes it to the playoffs. The women's soccer team has won three of their five games. Scorers for the Engineers have been Kathy Dumanski and Jeanne Young. Their first playoff game is November 3 on the front

#### Touch Football

The women's team has had a successful regular season, winning three of their six games. In their third game against PHE Laura Money scored Skule's first touchdown of the season to lead the team to a 7-6 victory. In the final game they dealt a crushing blow to the St. Hilda Smashers, winning by 13 points. Touchdowns were scored in this game by Joyce Van de Verte and Laura Money.



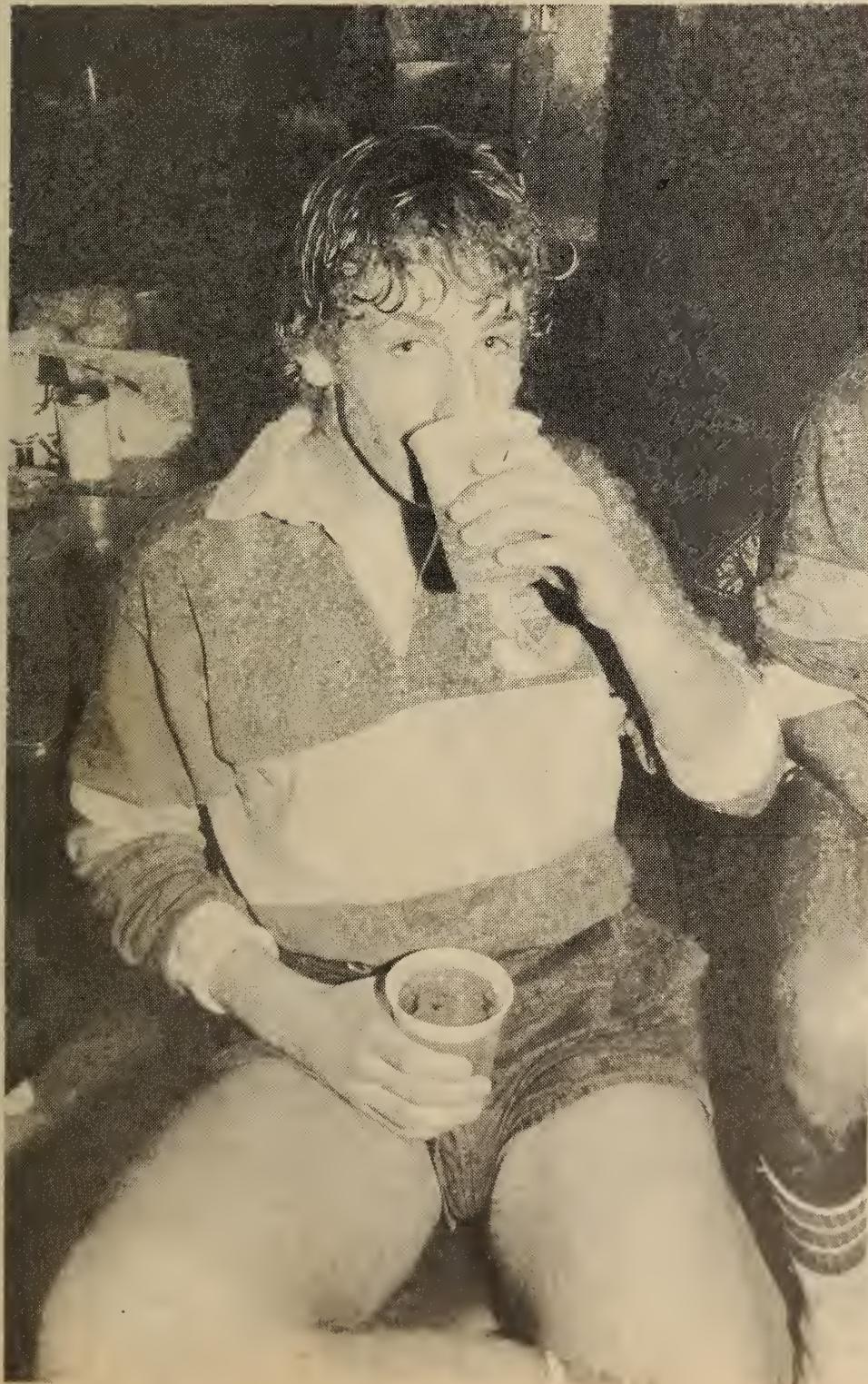
Malcolm McGrath, Assistant to the Dean, Alumni Liaison, is seen above presenting October's Athlete of the Month, Colette Taylor with her award. Each month an athlete is chosen on the basis of excellence and sportsmanship in intramural sports. Colette is from the graduating class of Mechanical. During October Colette consistently led the women's basketball team in the point scoring. In addition to this Colette placed first in the shot-put event at the track and field meet and second in the javelin. Congratulations!!

## Tennis

On October 23 an inter-faculty women's tennis tournament was held in the field house of the new gym. Engineering entered three players in the advanced division and one in the novice. All players had an excellent time and Kathy Underhill, who won the novice division last year managed to win the advanced title this year. How's that for improvement?

## Hockey

The women's hockey team have been out practising for the past three weeks and are looking forward to an exceptional season. A pre-season tournament was played last week but there are no results as yet. There is still plenty of room for any interested women engineers who can skate and hold a hockey stick at the same time.



## Innertube Waterpolo

A strong forward line which plays an excellent passing game has led this team to suffer only one defeat to the Erindale team. Presently Skule is in second place in the standings and will soon start their playoff games. Traditionally a strong Engineering team they are looking forward to a successful playoff series.

## CO-ED'S

### Broomball

Only one team has entered from engineering--the "Bud"ing Engineers. In a pre-season tournament held on October 17 they managed decisive victories over the two teams they played, even though no one was keeping score and they only played for 'fun'!

### Track and Field

An interfaculty track and field meet was held on Friday, October 15th at Varsity Stadium. Skule athletes did very well in their individual events to put engineering in sixth place overall. Men placed fourth overall.

Individual results were as follows:

#### Men

400m - 4th Ken Gilbert

1500m - 2nd Paul Tenn

5000m - 3rd Paul Tenn

5000m - 5th D. D. Wong

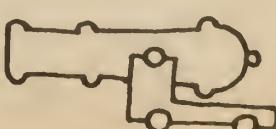
Long Jump - 1st Richard Chan

#### Women

Javelin - 2nd Colette Taylor

Shot Put - 1st Colette Taylor

100m - 4th Kathy Dumansk



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